

ABSTRACT

5 A method of manufacturing an oxide superconducting wire which can
manufacture the longest possible wire by connecting relatively short wires
with each other and is capable of suppressing reduction of a critical current
resulting from influence by strain when the wires connected with each
other are bent, an oxide superconducting wire, a superconducting coil and a
superconducting apparatus are provided. According to the method of
10 manufacturing an oxide superconducting wire by superposing end portions
of two oxide superconducting wires (1, 2) with each other thereby bonding
the end portions and connecting the oxide superconducting wires with each
other, a junction (L) formed by superposing the end portions with each
other is so worked as to reduce the quantity of strain on an end of the
junction (L) when the two oxide superconducting wires (1) and (2)
15 connected with each other are bent. Each of the oxide superconducting
wire, the superconducting coil and the superconducting apparatus has the
aforementioned junction (L), and the quantity of strain on the end of the
junction (L) is reduced in the aforementioned manner.